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**BEFORE THE ARIZONA CORPORATION COMMISSION**

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ANDY TOBIN

Arizona Corporation Commission

**DOCKETED**

APR 27 2017

DOCKETED BY

IN THE MATTER OF THE  
APPLICATION OF ARIZONA PUBLIC  
SERVICE COMPANY FOR A HEARING  
TO DETERMINE THE FAIR VALUE OF  
THE UTILITY PROPERTY OF THE  
COMPANY FOR RATEMAKING  
PURPOSES, TO FIX A JUST AND  
REASONABLE RATE OF RETURN  
THEREON, TO APPROVE RATE  
SCHEDULES DESIGNED TO DEVELOP  
SUCH RETURN.

DOCKET # E-01345A-16-0036

**SUMMARY OF DIRECT  
SETTLEMENT TESTIMONY OF DR.  
SAM MILHAM, MD, MPH WITNESS  
ON BEHALF OF WARREN  
WOODWARD**

IN THE MATTER OF FUEL AND  
PURCHASED POWER PROCUREMENT  
AUDITS FOR ARIZONA PUBLIC  
SERVICE COMPANY

DOCKET # E-01345A-16-0123

Sam Milham, MD, MPH, Witness in the above-referenced proceeding on behalf of

Intervenor Warren Woodward, hereby submits his Summary of Direct Settlement

Testimony.

APS "smart" meters are electronic devices which replaced the old electro-mechanical analog meters used to measure electric power consumption for billing purposes. The smart meters have circuitry to measure power consumption, and a microwave transmitter to send this information to the utility. The health effects of microwave exposures are well known. All transmitters, including the microwave transmitters in smart meters, operate on direct current (DC). The APS smart meters contain a switching mode power supply (SMPS) which changes the utility 60 Hz alternating current to DC. I will limit my testimony to the health effects of the electrical pollution (dirty electricity) generated by the smart meter SMPS. The dirty electricity problem is compounded by the utility using the earth as a primary neutral return to the substation. It is my professional opinion that smart meters are a public health hazard.

Respectfully submitted on this 27<sup>th</sup> day of April, 2017, by

*Samuel Milham M.D., M.P.H.*

Samuel Milham MD, MPH  
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Proof of Service

Original and 13 copies of the foregoing hand delivered on this 27<sup>th</sup> day of April, 2017 to:

Arizona Corporation Commission  
Docket Control Center  
1200 W. Washington  
Phoenix, AZ 85007

Copies of the foregoing mailed/e-mailed this 27<sup>th</sup> day of April, 2017 to:

The Docket Service List

By,

A handwritten signature in black ink, appearing to read "W Woodward", written over a horizontal line.

Warren Woodward  
200 Sierra Rd.  
**Sedona, AZ 86336**